

Message

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**From:** Lytle, Darren [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=FDDE061DAB3E4DA78AACEE87490F09B9-LYTL, DARREN]  
**Sent:** 10/5/2021 3:55:20 PM  
**To:** Nshimyimana, Jean Pierre (DHHS) [NshimyimanaJ@michigan.gov]  
**Subject:** RE: Sampling Layout  
**Attachments:** EPA-MDHHS-DUA-1301-20 DRAFT-04.29.20-CleanVers2-Editable-09132021-sbdraft-MDHHS EDIT.docx

Hello JP.

Our legal team is asking that the text in red be removed from the document. I guess EPA cannot agree to be bound by state law.

Let me know if that is okay.

Darren A. Lytle, Ph.D., P.E.  
U.S. Environmental Protection Agency  
Drinking Water Management Branch  
CESER Water Infrastructure Division  
26 West Martin Luther King Dr.  
Cincinnati, Ohio 45268  
Phone: (513) 569-7432  
Cell Phone: Ex. 6 Personal Privacy (PP)  
Fax: (513) 487-2543  
email: lytle.darren@epa.gov

---

**From:** Lytle, Darren  
**Sent:** Friday, September 24, 2021 3:08 PM  
**To:** Nshimyimana, Jean Pierre (DHHS) <NshimyimanaJ@michigan.gov>  
**Subject:** Sampling Layout

Hello JP,

Thanks for an explanation of all you are doing in BH this morning. We were particularly interested in your sample size statistical analyses as we are planning to develop our own statistically-based plan. If there is any way that can be share your plan soon, it would be greatly appreciated. It could save us a lot of time. I am sure we will be working closely in BH soon.

Thanks!

Darren

Darren A. Lytle, Ph.D., P.E.  
U.S. Environmental Protection Agency  
Drinking Water Management Branch  
CESER Water Infrastructure Division  
26 West Martin Luther King Dr.  
Cincinnati, Ohio 45268  
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Fax: (513) 487-2543

email: [lytle.darren@epa.gov](mailto:lytle.darren@epa.gov)

---

**From:** Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)>  
**Sent:** Tuesday, July 20, 2021 9:51 AM  
**To:** Lytle, Darren <[Lytle.Darren@epa.gov](mailto:Lytle.Darren@epa.gov)>  
**Cc:** Tiernan, Gerald (DHHS) <[TIERNANG@michigan.gov](mailto:TIERNANG@michigan.gov)>  
**Subject:** RE: Particles

Hello Darren,

I was just wondering if we may need our legal team to look at the comments provided before our discussion tomorrow.

This may help with the conversation.

Thank you,

Jean Pierre Nshimiyimana, Ph.D.  
Environmental Engineer  
Drinking Water Investigation Unit  
Toxicology and Response Section  
Environmental Health Division  
[nshimiyimanaJ@michigan.gov](mailto:nshimiyimanaJ@michigan.gov)  
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---

**From:** Lytle, Darren <[Lytle.Darren@epa.gov](mailto:Lytle.Darren@epa.gov)>  
**Sent:** Monday, July 19, 2021 9:02 AM  
**To:** Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)>  
**Cc:** Tiernan, Gerald (DHHS) <[TIERNANG@michigan.gov](mailto:TIERNANG@michigan.gov)>  
**Subject:** RE: Particles

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--

That sounds good.. Please feel free to set up the meeting. Darren

Darren A. Lytle, Ph.D., P.E.  
U.S. Environmental Protection Agency

ED\_006530\_00001387-00002

Drinking Water Management Branch  
CESER Water Infrastructure Division  
26 West Martin Luther King Dr.  
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---

**From:** Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)>  
**Sent:** Monday, July 19, 2021 6:48 AM  
**To:** Lytle, Darren <[Lytle.Darren@epa.gov](mailto:Lytle.Darren@epa.gov)>  
**Cc:** Tiernan, Gerald (DHHS) <[TIERNANG@michigan.gov](mailto:TIERNANG@michigan.gov)>  
**Subject:** RE: Particles

Hello Darren,

We could plan having a meeting on Wednesday sometime between noon to 3 pm EST.

Please let me know if you would like me to schedule a meeting Wednesday 1:00 PM to 2:00 PM.

Thank you,

Jean Pierre Nshimiyimana, Ph.D.  
Environmental Engineer  
Drinking Water Investigation Unit  
Toxicology and Response Section  
Environmental Health Division  
[nshimiyimanaJ@michigan.gov](mailto:nshimiyimanaJ@michigan.gov)  
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---

**From:** Lytle, Darren <[Lytle.Darren@epa.gov](mailto:Lytle.Darren@epa.gov)>  
**Sent:** Sunday, July 18, 2021 10:02 PM  
**To:** Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)>  
**Cc:** Tiernan, Gerald (DHHS) <[TIERNANG@michigan.gov](mailto:TIERNANG@michigan.gov)>  
**Subject:** RE: Particles

Hello JP,

Sorry it has taken so long but we finally got a few small comments on your disclosure agreement back from our legal team. Do you have a little time this week to discuss? I am free between 11 am-noon EST on Tuesday or noon to 3 pm EST on Wednesday.

Thanks, Darren

Darren A. Lytle, Ph.D., P.E.  
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Drinking Water Management Branch  
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Cell Phone: Ex. 6 Personal Privacy (PP)  
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email: [lytle.darren@epa.gov](mailto:lytle.darren@epa.gov)

---

**From:** Lytle, Darren  
**Sent:** Wednesday, May 12, 2021 10:48 AM  
**To:** Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)>  
**Cc:** Tiernan, Gerald (DHHS) <[TIERNANG@michigan.gov](mailto:TIERNANG@michigan.gov)>  
**Subject:** RE: Particles

Hello JP,

Let's meet next week. I have the following time slots open Mon 2:30-3:30 pm, Tues noon-1 pm, and Wed 12-2 pm all EST. Do any of those times work?

Darren

Darren A. Lytle, Ph.D., P.E.  
U.S. Environmental Protection Agency  
Drinking Water Management Branch  
CESER Water Infrastructure Division  
26 West Martin Luther King Dr.  
Cincinnati, Ohio 45268  
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Fax: (513) 487-2543  
email: [lytle.darren@epa.gov](mailto:lytle.darren@epa.gov)

---

**From:** Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)>  
**Sent:** Tuesday, May 11, 2021 7:25 AM  
**To:** Lytle, Darren <[Lytle.Darren@epa.gov](mailto:Lytle.Darren@epa.gov)>  
**Cc:** Tiernan, Gerald (DHHS) <[TIERNANG@michigan.gov](mailto:TIERNANG@michigan.gov)>  
**Subject:** RE: Particles  
**Importance:** High

Hello Darren,

We are still interested in exploring how we can collaborate on examining particles (filters used during testing of total and dissolved lead) from water samples we collect at household level in communities we work with across the state of Michigan.

Please let me know if we can schedule a meeting to have more discussion about the new interest and what we may need (e.g. review the document or add-in needed details) to get the agreement approved from your side. This would also help bring everyone up to speed from both side about this potential collaboration and how to move forward.

Thank you,

Jean Pierre Nshimyimana, Ph.D.  
Environmental Engineer  
Drinking Water Investigation Unit  
Toxicology and Response Section  
Environmental Health Division  
[nshimyimana.j@michigan.gov](mailto:nshimyimana.j@michigan.gov)  
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**From:** Lytle, Darren <[Lytle.Darren@epa.gov](mailto:Lytle.Darren@epa.gov)>  
**Sent:** Monday, May 10, 2021 3:37 PM  
**To:** Nshimyimana, Jean Pierre (DHHS) <[Nshimyimana.j@michigan.gov](mailto:Nshimyimana.j@michigan.gov)>  
**Subject:** Particles

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Hello JP,

I wanted to follow-up with you on the particle analysis study we discussed over a year ago (examining filters from communities where you do water sampling). The agreement you sent was caught up in our approval system where it remains. There is, however, some recent interest in lead particle research at high level in EPA. I raised that agreement and our discussions in a meeting, and was asked to revive the potential collaboration. Are you still interested (I hope) on working together on this issue?

Thanks, Darren

Darren A. Lytle, Ph.D., P.E.  
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Drinking Water Management Branch  
CESER Water Infrastructure Division  
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Fax: (513) 487-2543  
email: [lytle.darren@epa.gov](mailto:lytle.darren@epa.gov)

---

**From:** Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)>  
**Sent:** Thursday, April 29, 2021 11:10 AM  
**To:** Lytle, Darren <[Lytle.Darren@epa.gov](mailto:Lytle.Darren@epa.gov)>; Sasy, Ninah (EGLE) <[SasyN@michigan.gov](mailto:SasyN@michigan.gov)>  
**Cc:** Triantafyllidou, Simoni <[Triantafyllidou.Simoni@epa.gov](mailto:Triantafyllidou.Simoni@epa.gov)>; Formal, Casey <[formal.casey@epa.gov](mailto:formal.casey@epa.gov)>  
**Subject:** RE: WaterSense aerators & Home water flushing for lead reduction

Hello Darren,

I will coordinate with Ninah to see if the partners who provided these devices are able to provide samples from homes where they have distributed them.

We can specifically ask if the water conservation stakeholders could provide new devices to couple homes and get ones they have been using and share them with us for exploratory research.

Thank you,

Jean Pierre Nshimiyimana, Ph.D.  
Environmental Engineer  
Drinking Water Investigation Unit  
Toxicology and Response Section  
Environmental Health Division  
[nshimiyimanaJ@michigan.gov](mailto:nshimiyimanaJ@michigan.gov)  
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**From:** Lytle, Darren <Lytle.Darren@epa.gov>

**Sent:** Thursday, April 29, 2021 10:34 AM

**To:** Nshimiyimana, Jean Pierre (DHHS) <NshimiyimanaJ@michigan.gov>

**Cc:** Triantafyllidou, Simoni <Triantafyllidou.Simoni@epa.gov>; Sasy, Ninah (EGLE) <SasyN@michigan.gov>; Formal, Casey <formal.casey@epa.gov>

**Subject:** Re: WaterSense aerators & Home water flushing for lead reduction

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--

Absolutely, we can work with the devices in the lab. Are you going to be able to get used ones from community homes you investigate across the state? I was hoping we can look at what gets caught up on them. This relates to some work we are doing in a community where low flow and entrapment of lead particles on aerators is contributing to overall lead release.

Darren

Sent from my iPhone

On Apr 29, 2021, at 10:19 AM, Nshimiyimana, Jean Pierre (DHHS) <NshimiyimanaJ@michigan.gov> wrote:

Hi Darren,

The discuss we had about these devices was more related to metal release (lead) or biofilm growth promotion.

These devices are distributed to promote water conservation in some the communities in Action Level Exceedance for Lead. They reduce the flow rate (max flow from 2.2 gpm to 1.5 gpm) at a kitchen or a bathroom sink or showerhead.

We need your help to assess if these devices can increase metal release such as lead or promote biofilm growth since they reduce flowrate by 30% compared to the regular aerators and showerheads installed in buildings.

We hope you lab may have some time to help generate some preliminary data to understand the impact of these devices.

Thank you,

Jean Pierre Nshimiyimana, Ph.D.  
Environmental Engineer  
Drinking Water Investigation Unit  
Toxicology and Response Section  
Environmental Health Division  
[nshimiyimanaJ@michigan.gov](mailto:nshimiyimanaJ@michigan.gov)  
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**From:** Lytle, Darren <[Lytle.Darren@epa.gov](mailto:Lytle.Darren@epa.gov)>

**Sent:** Thursday, April 29, 2021 10:05 AM

**To:** Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)>

**Cc:** Triantafyllidou, Simoni <[Triantafyllidou.Simoni@epa.gov](mailto:Triantafyllidou.Simoni@epa.gov)>; Sasy, Ninah (EGLE) <[SasyN@michigan.gov](mailto:SasyN@michigan.gov)>; Formal, Casey <[formal.casey@epa.gov](mailto:formal.casey@epa.gov)>

**Subject:** Re: WaterSense aerators & Home water flushing for lead reduction

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--

Got it. We will look them over and develop an approach to take them apart.

Darren

Sent from my iPhone

On Apr 29, 2021, at 6:52 AM, Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)> wrote:

Hello Daren,

The package has new aerators (4) and one showerhead.

Two of the aerators are the type that goes on the kitchen faucet, while two are the type of aerators that goes on the bathroom faucets.

Thank you,

Jean Pierre Nshimiyimana, Ph.D.  
Environmental Engineer  
Drinking Water Investigation Unit  
Toxicology and Response Section  
Environmental Health Division  
[nshimiyimanaJ@michigan.gov](mailto:nshimiyimanaJ@michigan.gov)  
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**From:** Lytle, Darren <Lytle.Darren@epa.gov>  
**Sent:** Wednesday, April 28, 2021 9:02 PM  
**To:** Nshimiyimana, Jean Pierre (DHHS) <NshimiyimanaJ@michigan.gov>  
**Cc:** Triantafyllidou, Simoni <Triantafyllidou.Simoni@epa.gov>; Sasy, Ninah (EGLE) <SasyN@michigan.gov>; Formal, Casey <formal.casey@epa.gov>  
**Subject:** RE: WaterSense aerators & Home water flushing for lead reduction

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Samples arrived! I have not been in the office to see them yet. Were all aerators an showerheads used?

Casey- could you send photos to me the next time you are in.

Thanks, Darren

Darren A. Lytle, Ph.D., P.E.  
U.S. Environmental Protection Agency  
Drinking Water Management Branch  
CESER Water Infrastructure Division  
26 West Martin Luther King Dr.  
Cincinnati, Ohio 45268  
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Cell Phone: Ex. 6 Personal Privacy (PP)  
Fax: (513) 487-2543  
email: [lytle.darren@epa.gov](mailto:lytle.darren@epa.gov)

---

**From:** Lytle, Darren  
**Sent:** Tuesday, April 20, 2021 11:40 AM  
**To:** Nshimiyimana, Jean Pierre (DHHS) <NshimiyimanaJ@michigan.gov>  
**Cc:** Triantafyllidou, Simoni <Triantafyllidou.Simoni@epa.gov>; Sasy, Ninah (EGLE) <SasyN@michigan.gov>; Formal, Casey <formal.casey@epa.gov>  
**Subject:** RE: WaterSense aerators & Home water flushing for lead reduction

Excellent- We will be on the lookout. Darren

Darren A. Lytle, Ph.D., P.E.  
U.S. Environmental Protection Agency  
Drinking Water Management Branch  
CESER Water Infrastructure Division  
26 West Martin Luther King Dr.

Cincinnati, Ohio 45268  
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Cell Phone: Ex. 6 Personal Privacy (PP)  
Fax: (513) 487-2543  
email: [lytle.darren@epa.gov](mailto:lytle.darren@epa.gov)

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**From:** Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)>  
**Sent:** Tuesday, April 20, 2021 6:48 AM  
**To:** Lytle, Darren <[Lytle.Darren@epa.gov](mailto:Lytle.Darren@epa.gov)>  
**Cc:** Triantafyllidou, Simoni <[Triantafyllidou.Simoni@epa.gov](mailto:Triantafyllidou.Simoni@epa.gov)>; Sasy, Ninah (EGLE) <[SasyN@michigan.gov](mailto:SasyN@michigan.gov)>  
**Subject:** RE: WaterSense aerators & Home water flushing for lead reduction

Hello Darren,

I sent two sets of aerators and one shower.

Please let me know when you receive the package.

Thank you,

Jean Pierre Nshimiyimana, Ph.D.  
Environmental Engineer  
Drinking Water Investigation Unit  
Toxicology and Response Section  
Environmental Health Division  
[nshimiyimanaJ@michigan.gov](mailto:nshimiyimanaJ@michigan.gov)  
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**From:** Lytle, Darren <[Lytle.Darren@epa.gov](mailto:Lytle.Darren@epa.gov)>  
**Sent:** Friday, April 9, 2021 5:09 PM  
**To:** Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)>  
**Cc:** Triantafyllidou, Simoni <[Triantafyllidou.Simoni@epa.gov](mailto:Triantafyllidou.Simoni@epa.gov)>; Sasy, Ninah (EGLE) <[SasyN@michigan.gov](mailto:SasyN@michigan.gov)>; Tiernan, Gerald (DHHS) <[TIERNANG@michigan.gov](mailto:TIERNANG@michigan.gov)>  
**Subject:** Re: WaterSense aerators & Home water flushing for lead reduction

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Hello JP,

Sorry I totally forgot. Send to:

Darren Lytle  
U.S. EPA  
26 W. Martin Luther King Dr.  
Cincinnati, OH 45268

Let me know when you send them so we can be on the lookout.

Thanks!

Darren

Sent from my iPhone

On Apr 2, 2021, at 7:26 AM, Nshimyimana, Jean Pierre (DHHS) <[NshimyimanaJ@michigan.gov](mailto:NshimyimanaJ@michigan.gov)> wrote:

Hello Darren,

I received samples of aerators being distributed for water conservation and wanted to know the address and instructions how to mail them to you.

Thank you,

Jean Pierre Nshimyimana, Ph.D.  
Environmental Engineer  
Drinking Water Investigation Unit  
Toxicology and Response Section  
Environmental Health Division  
[nshimyimanaJ@michigan.gov](mailto:nshimyimanaJ@michigan.gov)  
Desk: 517-284-0055  
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**From:** Lytle, Darren <[lytle.Darren@epa.gov](mailto:lytle.Darren@epa.gov)>

**Sent:** Thursday, March 11, 2021 8:14 AM

**To:** Nshimiyimana, Jean Pierre (DHHS) <[NshimiyimanaJ@michigan.gov](mailto:NshimiyimanaJ@michigan.gov)>; Triantafyllidou, Simoni <[Triantafyllidou.Simoni@epa.gov](mailto:Triantafyllidou.Simoni@epa.gov)>  
**Cc:** Sasy, Ninah (EGLE) <[SasyN@michigan.gov](mailto:SasyN@michigan.gov)>; Tiernan, Gerald (DHHS) <[TIERNANG@michigan.gov](mailto:TIERNANG@michigan.gov)>  
**Subject:** RE: WaterSense aerators & Home water flushing for lead reduction

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Hello JP,

Good talking with you yesterday about this potential issue. Certainly, reduced flow within buildings always raises increased biofilm concerns. Also important are corrosion and metal release concerns. We find ourselves in many situations where increased flow/usage in a home is suggested for many reasons (moving particles out, bringing in "fresh" water, etc.). There is definitely an opportunity to collaborate. As you know, we have an experimental home plumbing system and other facilities that could be used to answer some of the questions we discussed. Such an effort would fit nicely within our existing research activities.

Darren

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**Subject:** WaterSense aerators & Home water flushing for lead reduction  
**Importance:** High

Hello Simoni and Darren,

I wanted to bring to your attention a question related to WaterSense aerators distributed in communities in Action Level Exceedance for Lead where flushing is one of the recommendations provided to get water moving and reduce lead associated with water stagnation.

WaterSense devices (<https://lookforwatersense.epa.gov/products/>) are being distributed to promote water saving in different communities in Michigan. However, WaterSense aerators are known to reduce the water flow rate and thus, there are concerns whether the recommended flushing time to reduce lead exposure associated with water stagnation in home interior plumbing and allow homeowners to use water from the water main may not be effective in homes using these devices.

1. Have you performed any research to confirm whether this might be an issue? Do these WaterSense aerators reduce flushing time compared to regular aerators? Have any time differences been confirmed based on popular plumbing aerators used? Is this something you are able to evaluate in the USEPA laboratory?

2. As these devices reduces flow, have any other efforts been done to evaluate potential effects to bacterial growth in home plumbing due to increase stagnation related to low flow rates.
3. If a collaboration research-based evaluation is developed in the State of Michigan, will this be something your team could join and participate-in? Does USEPA have any funding available to support a such effort?

Please let me know if you would like to organize a meeting to have further discuss about current research available as it relates to this topic.

Thank you,

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